

Product datasheet for **SC122604**

Aquaporin 5 (AQP5) (NM_001651) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aquaporin 5 (AQP5) (NM_001651) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aquaporin 5
Synonyms:	AQP-5; PPKB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001651 edited
 AGCGGCTCGCCGCTGCGACCAACGGGCGCCCCCGCGGCAGCTGCCGCCGGCC
 CCCGCGCCACCATGAAGAAGGAGGTGTGCTCCGTGGCCTTCTCAAGGCCGTGTCGCA
 GAGTTCTTGCCACCCTCATCTTCGTCTCTTTGGCCTGGGCTCGGCCCTCAAGTGGCCG
 TCGGCGCTGCCTACCATCCTGCAGATCGCGCTGGCGTTTGGCCTGGCCATAGGCACGCTG
 GCCAGGCCCTGGGACCCGTGAGCGGCGCCACATCAACCCCGCCATCACCTGGCCCTC
 TTGGTGGCAACCAGATCTCGTGTCTCCGGGCTTTCTTCTACGTGGCGGCCAGCTGGTG
 GCGCCATTGCCGGGCTGGCATCCTCTACGGTGTGGCACCGCTCAATGCCCGGGCAAT
 CTGGCCGTCAACGCGCTCAACAACAACAACGCAGGGCCAGGCCATGGTGGGAGCTG
 ATTCTGACCTCCAGCTGGCACTCTGCATCTTCGCCTCCACTGACTCCCGCCGACCAGC
 CCTGTGGGCTCCCAGCCCTGTCCATTGGCCTGTCTGTACCCTGGGCCACCTTGTGCGA
 ATCTACTTCACTGGCTGCTCCATGAACCCAGCCGCTCTTTTGGCCTGCGGTGGTCATG
 AATCGGTTTCAGCCCCGCTCACTGGGTTTTCTGGGTAGGGCCCATCGTGGGGCGGTCTCTG
 GCTGCCATCCTTTACTTCTACCTGCTCTTCCCCAACTCCCTGAGCCTGAGTGAGCGTGTG
 GCCATCATCAAAGGCACGTATGAGCCTGACGAGGACTGGGAGGAGCAGCGGAAGAGCGG
 AAGAAGACCATGGAGCTGACCACCCGCTGACCAGTGTGAGGCAGGGGCCAGCCCCCAGC
 CCCTGAGCCAAGGGGAAAAGAAGAAAAAGTACCTAACACAAGCTTCTTTTTGCACAAC
 CGGTCTCTTTGGCTGAGGAGGAGGAGCTGGTACCCTGGCTGCACAGTTAGAGAGGGGAG
 AAGGAACCATGATGGGACTCCTGGGATAGGGGCCAGGGGCTGGGGTCTGCTGGGACAG
 GTCTCTGAGGACAGACCTCAGAGATTGTGAATGCAAGTGCAGTCCAAGCTCACAGGCTGCAAGG
 GCCAGGCCAGAAAAGGGTGGGCCTGCAGCCTGCACCCCCACCTTCCCCAACCTTCTCTC
 AAGAGCTGAAGGGATCCCAGCCCCTAGGTGGGAGAGGCAGACCCTCCCAGAGCTCCTT
 AGGAAGAAGACAGACTGGTTTCAATTGAATGCCGCTTATTTATTTCTGGTGGGATGCATG
 CGTGGGGCTGCTGGTGTTAGAGTGGGGCTACCAATAAATCACTGATACCCAAAAAAA
 AAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001651 unedited CAGGTCAAATTTGTATACGACTCACTATAGGCGCCGCATAACTTCGTATAGCATAACAT TATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGCTCCG CCGCTGCGACCAACGGGGCCCGCCCGCGGCGAGCTGCCCGGGGCCCCCGCGGCCA CCATGAAGAAGGAGGTGTCTCCGTGGCCTTCTCAAGGCCGTGTTGCGAGAGTTCTTGG CCACCTCATCTTCGTCTTCTTTGGCCTGGGCTCGGCCCTCAAGTGGCCGTCGGCGCTGC CTACCATCCTGCAGATCGCGCTGGCGTTTGGCCTGGCCATAGGCACGCTGGCCAGGCC TGGGACCCGTGAGCGGGCCACATCAACCCCGCCATCACCTGGCCCTCTTGGTGGCA ACCAGATCTCGTGCTCCGGGCTTTCTTACGTGGCGGCCAGCTGGTGGGCGCCATTG CCGGGGTGGCATCCTCTACGGTGTGGACCGCTCAATGCCCGGGGAATCTGGCCGTCA ACGCGCTCAACAACAACAACGAGGCCAGGCCATGGTGGTGGAGCTGATTCTGACCT TCCAGTGGCACTCTGCATCTTCGCTCCACTGACTCCCGCCGACCAGCCCTGTGGCT CCCCAGCCCTGTCCATTGGCCTGTCTGTCACCCTGNGCCACCTTGTGGAATCTACTTCA CTGGCTGCTCCATGAACCCAGCCGCTCTTTTGGGCTGCGGTGGTCATGAATCCGTTCA GCCCGCTCACTGGGTTTTCTGGGTAGGGCCCATCGTGGGGCCGGTCTGGCTGCCATC CTTACTTCTACCTGCTCTCCCAACTCCCTGAAGCTGAGTGAGCGTGTGCCATTATCA AAGGCACGTTGAA
Restriction Sites:	Please inquire
ACCN:	NM_001651
Insert Size:	1388 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001651.1</u> , <u>NP_001642.1</u>
RefSeq Size:	1316 bp
RefSeq ORF:	798 bp
Locus ID:	362
UniProt ID:	<u>P55064</u>
Cytogenetics:	12q13.12
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

Aquaporin 5 (AQP5) is a water channel protein. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). Aquaporin 5 plays a role in the generation of saliva, tears and pulmonary secretions. AQP0, AQP2, AQP5, and AQP6 are closely related and all map to 12q13. [provided by RefSeq, Jul 2008]